

WHAT IS CLAIMED IS:

1. A spring-loaded pressure relief valve, particularly for containers of pressurized fluids, comprising a valve body that is associable with a container and forms a discharge port that is controlled by a main piston, an
5 auxiliary valve being further provided which controls a venting port and drives the intervention of said main piston, wherein said main piston is accommodated in a cavity that is formed in said valve body and is open in an axial direction on the opposite side with respect to said venting port.
2. The pressure relief valve according to claim 1, wherein said cavity has
10 a cylindrical shape.
3. The pressure relief valve according to claim 1, wherein said main piston has a cylindrical piston body with radial guiding wings at its base.
4. The pressure relief valve according to claim 3, wherein said piston
15 body has a substantially cylindrical shape with a rim that engages the radial guiding ridges formed monolithically with said valve body inside said cavity.
5. The pressure relief valve according to claim 1, wherein said main piston has a sealing element constituted by a flat sealing gasket.
6. The pressure relief valve according to claim 1, wherein said main
20 piston has a sealing element constituted by an annular gasket that has a circular cross-section.
7. The pressure relief valve according to claim 1, wherein said main piston has a sealing element that is constituted by a frustum-shaped gasket.
8. The pressure relief valve according to claim 1, comprising a
25 cylindrical wall that can be coupled hermetically to said piston body and forms a chamber for accommodating a main spring that pushes against said main piston, said chamber being connected to the inside of the container by means of a channel that has a small diameter.
9. The pressure relief valve according to claim 1, wherein said venting
30 port of said auxiliary valve leads at said chamber.

10. The pressure relief valve according to claim 1, wherein said auxiliary valve has an auxiliary valve body that can be applied in a valve seat that forms said venting port, an auxiliary gasket acting at said venting port and being supported by an auxiliary piston on which an auxiliary spring acts, 5 said auxiliary spring being connected at its other end to a setting ring that is accommodated in said auxiliary valve body.

11. A spring-loaded pressure relief valve, particularly for containers of pressurized fluids, comprising a valve body that is associable with a container and forms a discharge port that is controlled by a main piston, an 10 auxiliary valve being further provided which controls a venting port and drives the intervention of said main piston, comprising a one-way valve that is arranged at said venting port and is adapted to block said venting port when said auxiliary valve is removed.

12. The pressure relief valve according to claim 11, wherein said cavity 15 has a cylindrical shape.

13. The pressure relief valve according to claim 11, wherein said main piston has a cylindrical piston body with radial guiding wings at its base.

14. The pressure relief valve according to claim 13, wherein said piston body has a substantially cylindrical shape with a rim that engages the radial 20 guiding ridges formed monolithically with said valve body inside said cavity.

15. The pressure relief valve according to claim 11, wherein said main piston has a sealing element constituted by a flat sealing gasket.

16. The pressure relief valve according to claim 11, wherein said main 25 piston has a sealing element constituted by an annular gasket that has a circular cross-section.

17. The pressure relief valve according to claim 11, wherein said main piston has a sealing element that is constituted by a frustum-shaped gasket.

18. The pressure relief valve according to claim 11, comprising a 30 cylindrical wall that can be coupled hermetically to said piston body and

forms a chamber for accommodating a main spring that pushes against said main piston, said chamber being connected to the inside of the container by means of a channel that has a small diameter.

19. The pressure relief valve according to claim 11, wherein said venting
5 port of said auxiliary valve leads at said chamber.

20. The pressure relief valve according to claim 11, wherein said auxiliary valve has an auxiliary valve body that can be applied in a valve seat that forms said venting port, an auxiliary gasket acting at said venting port and being supported by an auxiliary piston on which an auxiliary spring acts,
10 said auxiliary spring being connected at its other end to a setting ring that is accommodated in said auxiliary valve body.

21. The pressure relief valve according to claim 18, wherein said one-way valve comprises a frame that can be connected at an intermediate port that is formed by a spoked body that supports said cylindrical wall, said frame
15 accommodating a ball-type flow control element that is pushed by a spring of the one-way valve in order to move said ball-type flow control element so that it closes said intermediate port when a central protrusion formed by said auxiliary valve moves away.